

Effect of diuretics on urination in certain experimental kidney diseases.

Farm. i toks. 22 no.3:275 My-Je '59. (MIRA 12:7)

1. Kafedra farmakologii (zav. - prof. A.D. Shteynberg) Karagandinskogo meditainskogo instituta.

(THEOBROMINE, eff.

theobromine-sodium salicylate mixture on urination in experkidney dis. (Rus))

(DIURETICS, MERCURIAL, eff.
mersalyl sodium-barbital mixture on urination in experkidney dis. (Rus))

(BARBITURATES, eff.
barbital-mersalyl sodium mixture on urination in exper.
kidney dis. (Rus))

(KIDNEY DISEASES, exper.

eff. of barbital-mersalyl sodium & theobromine-sodium salicylate mixtures (Rus))

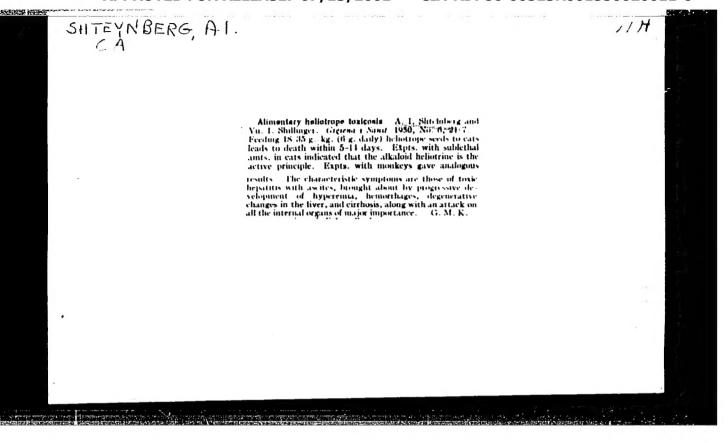
SHTEYNBERG, A.D.

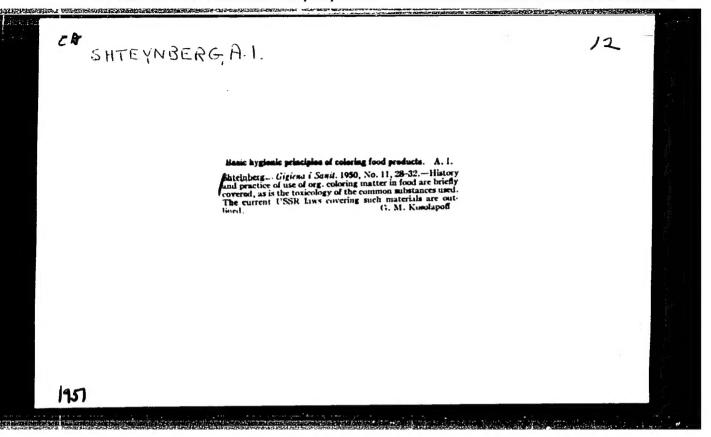
Influence of synthomycin and levomycetin on conditioned reflex activity in dogs. Farm. i toks. 24 no.4:394-397 Jl-Ag '61. (MIRA 14:9)

1. Kafedra farmakologii (zav. - prof. A.D.Shteynberg) Karagandinskogo gosudarstvennogo meditsinakogo instituta. (CONDITIONED RESPONSE) (CHLORMYCETIN)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001550020011-6





optimberg, 1.	L.	PA 19735	3
	USSR/Radio - Relay Stations Jan 1946 Radio - Relay equipment		
	"The Operation of a Booster Station," A. L. Shteynberg, 4 pp		
	"Vestnik Svyazi - Elektro Svyaz'" No 1 (70) Discusses security measures against damage to communications lines. Present exploitation of the available lines of communications and examples of logs which have to be kept by these radio booster stations.		
	19735		

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001550020011-6"

KRISTAL'NYY, Vladimir Samoylovich. Prinimal uchastiye ŒNIN, L.S.. SHTEYNBERG, A.L., retsenzent; SMIRYAGIN, A.G., otv.red.; BOGACHEVA, G.V., red.; SHEFER, G.I., tekhn.red.

[Long-distance telephone communications] Ekspluatatsiia mezhdugorodnoi telefonnoi sviazi. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1959. 182 p. (MIRA 13:1) (Telephone)

TINTMAN, Nukhim Izrailevich; GUSEV, Simon Stepanovich; FAT'KIN. DF., kand. tekhn. nauk, retsenzent; SHTEYNEERG, A.L., inzh., retsenzent; YAKUB, Yu.A., kand. tekhn. nauk, otv. red.; ULANOVSKAYA, N.M., red.; MARKOCH, K.G., tekhn. red.

[Wire communications]Provodnaia sviaz' Moskva, Sviaz';zdat, 1962. 290 p. (MIRA 16:1)

(Telephone) /Telegraph) (Teletype)

SHTEYNBERG, Aleksandr L'vovich, inzh.; SHTEYNBOX, G.Yu., inzh., ved. red.; GONCHAROV, I.V., kand. tekhn. nauk, red.; SOROKINA, T.M., tekhn. red.

[Upe-l unit]Ustanovka UPE-l. Moskva, Filial Vses. in-ta nauchnotekhn. informatsii, 1958. 8 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 34. No.P-58/10) (MIRA 16:2) (Electronic instruments) (Electric instruments—Testing)

SECRETARIA, 1. 1.

Mor., Martenn Sci. Ros. East. No. Retallurgical Endustry, -c1999. "Decreasing Electric Power Consequence in the Eroparation of Pulverised Coal by Granding Lightte in Hall Halls," Proc. Account., No. 2, 1999.

SHTEYNBERG, A. M.

"Ways of Accelerating the Underground Discharge Operations During Deep Core Drilling in the Don Basin." CandTech Sci, Moscow Geological Prospecting Institute imeni Sergo Ordzhonikidze, 29 Dec 54. (VM, 21 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No.556, 24 Jun 55

KULICHIKHIN, N.I.; SHTEYNEERG, A.M.

Determining optimal speed relationships in raising the tool used in boring deep exploratory boreholes. Trudy MGRI no.28:131-137'55.

(Boring)

(MLRA 8:6)

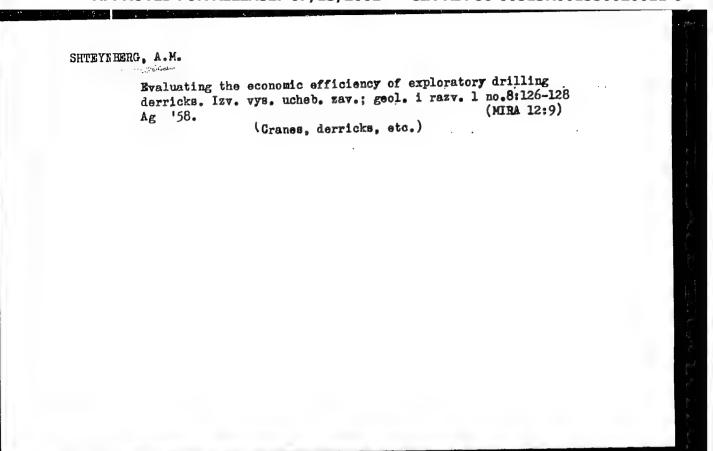
Efficient draw works for deep exploratory boring. Razved.1 okh. nedr 22 no.1:28-32 Ja '56. (MLRA 9:5)

TROFIMOV, V.M.; SHTEYNBERG, A.M.

Using modernized BK-M core barrels for drilling in the Donets Basin.
Razved.i okb.nedr.22 no.3:17-22 Mr '56. (MIRA 9:7)
(Donets Basin-Boring machinery)

 Study of core bits used for boring in the central Donets Basin.
Trudy MGHI 30:115-123 '56. (MLRA 9:11)

(Boring machinery) (Donets Basin--Boring)



SHIET NBERG, A.M.; TROFIMOV, V.M.

Sinking distance in one pass in connection with the drill-ability of rocks. Izv.vys.ucheb.zav.; geol.i razv. 2 no.5: 123-127 My '59. (MIRA 12:12)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze, i Krasnoyarskiy institut tsvetnykh metallov i zolota im. M.I. Kalinina.

(Boring)

SHTETNBERG, A.M.

Practices of ship division into planning and accounting units.

Trudy TO sud.prom. 8 no.2:101-102 '59. (MIRA 13:5)

(Shipbuilding)

TROFIMOV, V.M.; SHFEYHBERG, A.M.

Methods for increasing the efficiency of test deep drilling.

Trudy MGRI 34:140-144 '59. (MIRA 13:12)

(Boring)

PAL'Y.WOV, F.F.; SHTEYNBERG, A.M.; Prinimali uchastiye: ZINENKO, V.P.; KIRSANOV, A.N.; KULICHIKHIN, N.I., prof., red.

[Drilling holes; for the specialty "Hydrogeology and engineering geology" in prospecting and mining institutes and departments | Burenie skvazhin; dlia spetsial'nosti "Gidrogeologiia i inzhenernaiz geologiia geologorazvedochnykh gornykh institutov i fakul'tetov. Moskva, Nedra, 1964. 354 p. (MIRA 17:12)

DOLGANOV, Ye.A.; SHTEYNBERG, A.M.; BARSKTY, M.D.

Effectiveness of the classification process. Izv. vys. ucheb. zav.; khim. i khim. tekh. 8 no.3:499-503 '65.

(MIRA 18:10)

l. Ural'skiy politekhnicheskiy institut imeni Kirova i Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki.

BORDVSKIY, I.B.; SHTEYNBERG, A.H.; BUGULOVA, V.V.

Quantitative determination of Bi, Pb, Zn and Cd in silicon by the sublimation method with preliminary treatment for sensitivity. Trudy.Inst. met. no.3:283-288 *58. (MIRA 12:3) (Silicon-Analysis) (Nonferrous metals-Spectra)

GAYDOVSKIY, Vladimir [Hajdovský, Vladimir), RNDr: SHTEYNBERG, A.N., [translator]; ANTONOVA, V.I. [translator]; OSHCHEPKOV, P.K., doktor tekhn.nauk, red.; GOLYATKINA, A.G., red.izd-va; ATTOPOVICH, M.K., tekhn.red.

[Using X rays and Y rays in materials testing] Issledovanie materialov rentgenovymi i Y-luchami. Pod red. P.K.Oshchepkova. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 314 p. [Translated from the Czech](MIRA 12:5)
(Gamma rays--Industrial applications)
(X rays--Industrial applications)

PONOMAREV, A.I.; SHTEYNBERG, A.N.; NAGIBIN, V.S.; YAKOVLEV, P.Ya.

"Methods of chemical, physicochemical, and spectral analysis of raw materials, metals, and slags at metallurgical plants" by V.D.Konkin, G.A.Klemeshov, O.I.Nikitina. Reviewed by A. O. Ponomarev and others. Zav.lab. 28 no.5:638-639 '62. (MIRA 15:6)

(Metallurgical analysis) (Konkin, V.D.) (Klemeshov, G.A.)
(Nikitina, O.I.)

SHTEYNBERG, A.N.

Quantitative spectrum analysis of pure silicon carbide by the vaporization method. Trudy Inst. met. no.11:243-254 '62. (MIRA 16:5)

(Silicon carbide--Spectra) (Evaporation)

SHTEYNBERG, A.N...

Method of vaporization in spectrum analysis. Trudy Inst. met. no.11:237-242 '62. (MIRA 16:5)

(Spectrum analysis) (Evaporation)

SHTEYNBERG, A.N.

Direct spectral determination of boron in silicon. Trudy Inst.
met. no.ll:229-236 '62. (MIRA 16:5)
(Silicon-Analysis) (Boron-Analysis)

SHTEYNBFRG, A.N.

Spectral analysis of pure metallic tungsten by means of discharges in a hollow cathode. Metod. anal. khim. reak. i prepar. no.7:77-81 '63. (MIRA 17:5)

l. Institut metallurgii imeni Baykova.

SHTEYNBERG, A.H.

Mortar for crushing solid crystals. Zav. lab. 29 no.8:1013-1014 163. (MIRA 16:9)

1. Institut metallurgii imeni A.A.Baykova. (Silicon carbide) (Spectrum analysis)

SHTEYNBERG, A.N.

Using a source with a hollow cathode for mass spectrum analysis. Zav. lab. 29 no.9:1084 '63. (MIRA 17:1)

1. Institut metallurgii imeni A.A. Baykova.

ACCESSION NR: AP4013301

\$/0032/64/030/002/0178/0180

AUTHORS: Kalinnikov, V. T.; Shteynberg, A. N.

TITLE: Spectral analysis of titanium dioxide and silicon carbide by the evapora-

SOURCE: Zavodskaya laboratoriya, v. 30, no. 2, 1964, 178-180

TOPIC TAGS: spectral analysis, titanium dioxide, silicon carbide, carborundum, evaporation method, evaporator, impurity, impurity removal, purification, spectrograph, kinetics of vaporization, titanium, graphite

ABSTRACT: The authors used the vaporization method to distill the impurities from samples of metallic titanium and silicon carbide (carborundum), followed by determination using an ISP-28 spectrograph in an electric arc. The vaporizer was an electric furnace with a $16 \times 17 \times 20$ cm chamber, where 50 mg of the specimens were placed in graphite beakers, then heated to the desired temperature. Since metallic titanium was difficult to grind, these samples were converted to titanium dioxide by heating in air at 800-900C, and then were mixed with one third their weight of graphite powder to prevent spattering in the vaporizer. It was found that

Card 1/2

ACCESSION NR: AP4013301

at 15000 the vaporization of Bi, Ph, and Sn occurred, followed by that of Fe, Mr, Si, and Cu at 20000. Mg, Al, and Cr began to evaporate at 22000. It took 120 seconds to vaporize the elements of the first group, another 120 seconds for the second, and an additional 150 seconds to vaporize the metals of the third group. The samples of silicon carbide in the form of 2-4-mm crystals, were analyzed by a similar technique, because of the failure to get results by Morrisson and Rupp's method ("Silicon Carbide, a high temperature semiconductor", Pergamon Press, 1960). It was found that at 18500 nearly all the Fe, Cu, Mn, Pb, P, and Sb were distilled out within 3 minutes. The average quadratic relative error of a single determination of the impurities was 20-25%. L. M. Ivantsov and B. I. Kostin participated in the construction of the evaporator. Orig. art. has: 3 charts

ASSOCIATION: Institut metallurgii im. A. A. Baykova (Institute of Metallurgy)

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DATE ACQ: 26Feb64

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NO REF SOV: 004

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Cord 2/2

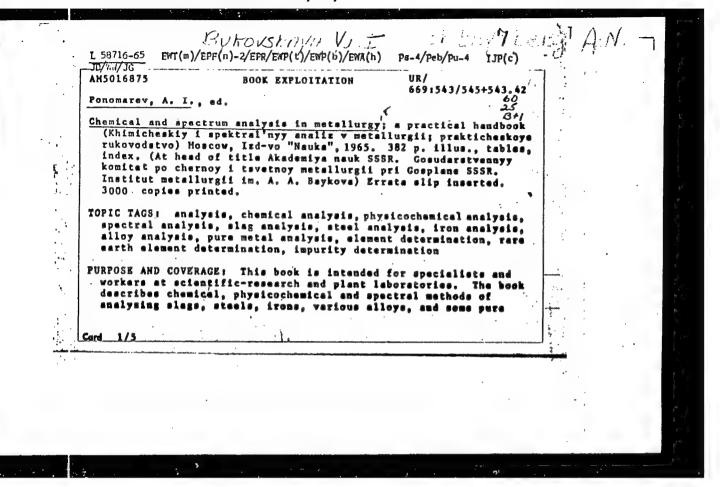
Portable spectroprojector on the basis of the "mikrofot" apparatus. Zav. lab. 30 nc.5:634 '64. (MIPA 17:5)

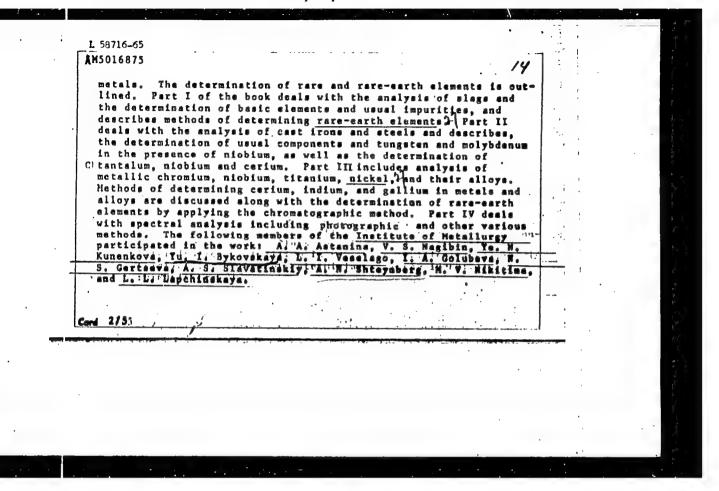
1. Institut metallurgii imeni f.A. Baykova.

SHTEYNBERG, A.N.

Static volt-ampere and temperature characteristics of a discharge in a hollow cathode. Opt. i spektr. 18 no.1:16-19 Ja *65.

(MIRA 18:4)





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_ [58716-65		0	
TABLE OF CONTENT [Abridged]:		8	
Foreword 3 /			
Part I. Analysis of Glage - 5			:
Part II. Analysis of Cast Irons and S	taala ww 116		
	•		
Part III. Hethods for Determination of	·	nce in	
11. Analysis of chromium and its al	loys 266	chronium	!
allove 273	نذ	• 1	•
9. Determination of chromium in c III. Analysis of miobium and its 41	loys 276		
4. Determination of tungeten and	niobium in siobium	-tungsten	:
8. Repid determination of aluminu	m in miobium-slumi	mammacle - 2712	:
10 alloy 291	3		
	•		•
Card 3/5			
		The second secon	1
		to it and	
		A CONTRACTOR OF THE STATE OF TH	:

5.	10. Bichromatic method of determining molybdenum is base alloys 292	,	4.
S .	11. Determination of niobium and gallium in niobium alloys 293		
	13. Polarographic determination of titanium in tite niobium alloys (with titanium content up to 65)	inium- K) 295	
Ch	, VIII, Determination of <u>germanium</u> 314 1. Weighing method of determining germanium in ger	enture	
	iron alloys 314 2. Determination [of germanium] in silicon 315	41	
	3. (Colorimetric determination [of germanium] in in in 11		•
	4. Determination of silicon, tellurium and germanic tellurium-germanium alloys 315	1	
	5. Determination of theilium in germanium-thailium 6. Colorimetric method of determining antimony in germanium 317	metallic	-
١,	germanium Ji,		
.	4/8		:
Card			1
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1. Determination	on of Indium 320 on in iron-base alloys 3 in titanium-indium alloys		7	
3. Determination 4. Determination alloys 323 5. Determination	in germanium-indium-photo in neodymium-indium-magne in silicon-indium-wanadiu description of cadmium	malloys 3	-4-1 13	
antimony and Ch. XI. Polarogram	ohic Determination of Impur 328 Analysis of Steels, Certa	ities in Teer		
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BOKHAYANSKIY, L.F.; BRITIYNBERG, A.N.

Finetics of the inflow of impurities to discharge plasma in a hot hollow cathods. May, lab. 31 no.1:54-56 '65.

(M:RA 18:3)

l. Institut metallurgii imeni Baykova.

L 3151-66 EWT(1)/EWP(e)/EWT(m)/EPF(c)/EWP(1)/ETC/EPF(n)-2/EWG(m)/EPA(w)-2/T/EWP(b) IJP(c) DS/WW/AT/WH

ACCESSION NR: AP5016039

Shteynberg. A. N. 44.53

UR/0368/65/002/005/0385/0391

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TITLE: Some problems in the use of a hot hollow cathode for spectral analysis

SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 5, 1965, 385-391

TOFIC TAGS: spectrum analysis, arc discharge, zinc compound, zir-conium compound, graphite

ABSTRACT: Inasmuch as the use of a hot hollow cathode in emission spectral analysis unavoidably necessitates the introduction of the analyzed substance in the cathode, the author examines the influence of the presence of extraneous bodies in the cathode on the behavior of the discharge and on the temperature conditions of the cathode. Thin rods of different materials (graphite and niobium carbide) were introduced into a graphite cathode and the volt-ampere characteristics were measured for the same cathode with and without the rod. The greatest effect was found to be produced by the unequal heating

Card 1/2

AUTHOR:

L 3151-66

ACCESSION NR: AP5016039

of the rod and of the cathode (in some cases the rod was 750° hotter than the cathode.) The relative coolness of the cathode leads to a decrease in the overall power of the discharge. Various means of effective introduction of the samples in the cathode are discussed and it is shown that cathode sputtering can be appreciably reduced by proper choice of the discharge current. In the case of ZrN cathode, the optimal density is 250 ma/cm², and in the case of tungsten cathode

it is 600 -- 700 ma/cm². Orig. art. has: 4 figures

ASSOCIATION: None

SUBNITTED: 25Ju164

ENCL: 00

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OTHER: 003

Card 2/2

AYZENSHTAT, S.Yu., inzh.; BARKAN, V.M., inzh.; KURTSMAN, M.D., inzh.; POZNYAKOV, N.V., inzh.; CHERNYAVSKIY, I.S., inzh.; SHTEYNBERG, A.S., inzh.; MIL'SHTEYN, D.S., inzh., red.; KASHTAMOV, F., red.; STEPANOVA, N., tekhn. red.

[Concealed electrical wiring in 1-464A-series large-panel apartment houses] Montazh skrytoi smeniaemoi elektroprovodki v krupnopanel'nykh zhilykh domakh serii 1-464A. Pod red. D.S. Mil'shteina. Minsk, Gos.izd-vo BSSR, Red. proizvodstvennoi litry, 1962. 75 p. (MIRA 15:6)

1. Elektromontazh no.18, turst.
(Electric wiring, Interior)

SHTEYNBERG, A.S., inzh.; SITNIKOV, L.P., red.

[Collection of inventions; concrete and reinforced concrete] Sbornik izobretenii; beton i zhelezobeton. Moskva, Informatsionno-izd. otdel, 1960. 155 p. (MIRA 14:11)

1. Russia (1923- U.S.S.R.) Komitet po delam izobreteniy i otkrytiy. (Concrete) (Concrete reinforcement)

MIKHANOVSKIY, D.S., inzh.; SHTEYNBERG, A.S.

Intensifying temmerature conditions in casting reinforced concrete products in molds. Bet.i zhel.-bet. no.1:31-33
Ja '60. (MIRA 13:5)

GOLUBOVICH, S.R.; FINK, L.Ye.; TUMA.KIN, P.I., inzh.; SHTEYNBERG, A.S., inzh.; GRIZAK, Yu.S., inzh., retsenzent; OTDEL'NOV, P.V., inzh., red.izd-va; TIKHANOV, A.Ya., tekhn. red.

[New equipment for manufacturing building materials] Novoe oborudovanie dlia proizvodstva stroitel'nykh materialov; spravochnoe posobie. Moskva, Mashgiz, 1963. 247 p. (MIRA 17:1)

SHTEYNBERG, A.S.

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Terminology of vegetative disorders in neuroses. Zhur.nevr. i psikh. 55 no.8:639-640 '55. (MLRA 8:10) (NEUROPATHOLOGY-TERMINOLOGY)

Dispensary treatment of neurological patients by subcutaneous injection of oxygen. Zdrav. Kazakh. 18 no. 2:54-57 '58.

(MIRA 13:8)

1. Iz gorodskoy ob"yedinennoy bol'nitsy prompredpriyatiy g. Petropavlovska.

(NERVOUS SYSTEM—DISEASES)
(OXYGEN—THERAFETTIC USE)

Thermoanemometer with a linear scale. Trudy VNIITP no.18:
195-199 '61. (MIRA 17:1)

ORBOVETS, Mark Naumovich, inzh.; SHTEYNBERG, Aleksandr Samuilovich; BEGMA, Vasiliy Filippovich, inzh.

[Practices in manufacturing large-panel elements for twostory apartment houses in rural areas] Opyt proizvodstva krupnopanel'nykh elementov dvukhetazhnykh zhilykh domov dlia sel'skikh raionov. Moskva, Stroiizdat, 1964. 28 p. (MIRA 17:12)

1. Moscow. Nauchno-issledovateliskiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitelistvu.

SHTUYNG AG, A.S.

Modification of the process of equalizing descents for the generalized Chebyshev minimum problem. Dop. AN UESR no.3:318-321 '63. (MIRA 17:10)

1. Hiyevskiy politekhnicheskiy institut. Fredstavleno akademikom AN Ukrsak I.Z. Shtokalo.

SHTEYNBERG, Abram Samoylovich; EGLE, B., red.

[Sheet metal work in the radioelectronic equipment industry] Listovaia shtampovka v radioelektronnoi promyshlennosti. Riga, Latviiskoe gos. izd-vo, 1964. 54 p. (MIRA 18:1)

SHTEYNBERG, A.S.

Formulas for practical harmonic analysis and certain problems for estimates of uniform approximations of functions. Nauk.zap.Kiev.un. 8 no.4:105-110 '49. (MIRA 9:10) (Harmonic analysis) (Fourier's series)

SHTEYNBERE, A.S.; HNYEDENKO, B.V., diyanyy chlen.

On the best uniform approximation for a system of incompatible linear equations and a method of compensation-gradient corrections. Dop.AN URSR no.3:167-173 (MLRA 6:9)

1. Akademiya nauk Ukrayins'koyi RSR (for Hnyedenko).
(Approximate computation)

SHTEYNBERG, A.S. - "Several Methods of Solving the Problem of the Best Uniform Approximation for a System of Nonadjoin Linear Equations." Cand Phys-Math Sci, Approximation State U, Leningrad 1953. (Referativnyy Zhurnal--Matematika

SO: SIM 168, 22 July 1954

SHTEYNBERG, A.S.

Divided difference of function on a system of deviation points of the Chebyshev polynomial in connection with certain applications. Izv.vys.ucheb.zav.;mat. no.1:218-226 '60. (MIRA 13:6)

28706

8/021/61/000/008/001/011

D210/D303

6.5200 AJTHORS:

Remez, Ye. Ya., Corresponding Member, AS UkrSSR,

and Shteynberg, A.S.

TITLE:

On some extremum problems of the generalized Chebyshev type and on the method of equalizing descents

: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 8,

FERIODICAL: Akademiya naul 1961, 983-989

TEXT: Initially, problems of the type

 $\sup_{z \in E} |F_n(z;x) - f(z)| = \sup_{z \in E} |\sum_{j=1}^{n} x_j g_j(z)| = \text{funct.}(x) = \min \qquad (1)$

with restrictive conditions

Card 1/4

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On some extremum problems ...

$$X_{v}(x) = \omega_{v}(x) + 1_{v} = \sum_{j=1}^{n} k_{vj}x_{j} + 1_{v} \langle 0 (v = 1, m; \sum_{j=1}^{n} k_{vj}) \rangle 0$$
 (2)

(called conditional minimax problems) are considered. As in the case of free minimax problems, without the restrictive conditions, this problem is reduced, with any degree of accuracy, to a similar one

$$\max_{z \in eH} \left| \sum_{j=1}^{n} x_{j} g_{j}(z) - f(z) \right| = \max_{i=1,H} \left| \sum_{j=1}^{n} x_{j} g_{j}(z_{i}) - f(z_{j}) \right| = \min \quad (1^{\circ})$$

with the same conditions as in (2), on some corresponding finite

 28706 S/021/61/000/008/001/011 D210/D303

On some extremum problems ...

set (called a network). The method of equalizing descents is suitable here for numerical construction of solutions. The treatment of this method remains essentially the same if (1') is replaced by a more general quasi-Chebyshev problem of algebraical minimax

$$\max_{i=1,N} \underline{\phi}_{i}(x) = L(x) = \min, \qquad \underline{\phi}_{i}(x) = \gamma_{i}(x) + b_{i} = \sum_{j=1}^{n} o_{ij}x_{j} + b_{i}$$

$$(5)$$

If conditions (2) are added one obtains the more general problem of conditional minimax. It is mentioned that problems of Kan-torovich type have been treated with the aid of the gradient me- Card 3/4

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On some extremum problems ...

thod by G. Sh. Rubinshteyn (Ref. 9: Usp. mat. nauk 10: 4,20 (1955).DAN SSSR 113,987 (1957)) and S.I. Zukhovitskiy (Ref. 10: DAN SSSR 133,20 (1960); the latter does not state that his method is equivalent to one found previously by A.S. Shteynberg (Ref. 6: DAN UrSR 167 (1951)). The algorithm for the solution of the problem (5)-(2) is described and a theorem is established that the process formulated is always finite, i.e. after a finite number of steps either a solution is obtained or a situation reached which means that there is no solution. There are 12 references: 11 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Instytut matematyky AN URSR (Institute of Mathe-

matics, AS UKrSSR); Kyyivs'kyy politekhnichnyy

instytut (Politechnic Institute of Kyyev)

SUBMITTED: March 11, 1961

Card 4/4

X

s/096/62/000/008/002/004 E194/E455

Shteynberg, A.S., Engineer AUTHOR:

The influence of flow oscillations on heat exchange

between a gas flow and a solid surface TITLE:

PERIODICAL: Teploenergetika, no.8, 1962, 75-77

The present experimental study is of the influence of low-frequency oscillations (up to 50 c/s) of gas flow on heat exchange between flow and particles, when the amplitude of oscillation is considerably greater than the dimensions of the The experimental equipment is described. anemometer pick-up was used as sensitive element (particle). It consists of a thermistor type MMT-1, 8 mm long, 2.1 mm diameter wound over with a coil of manganin wire 0.1 mm diameter. pick-up was located in a flow of air issuing from a nozzle 40 mm diameter and was caused to oscillate in line with the air flow by A heating current was passed through the coil on the thermistor and its temperature was measured under various flow conditions. The range of experimental conditions was as follows: Reynolds criterion for steady-state flow Card 1/2

S/096/62/000/008/002/004 E194/E455

The influence of flow ...

 ${\rm Re}_{\rm S}=0$ to 540, frequency of oscillation f = 0 to 50 c/s, amplitude of oscillation A = 3 to 10 mm, criterion Gr = 40. The results were worked out relative to the Reynolds criterion for oscillatory motion ${\rm Re}_{\rm V}$

$$Re_{\mathbf{v}} = \frac{4Afd}{2} \tag{2}$$

Graphs of Nu = Nu(Re $_{\rm V}$) with Re $_{\rm S}$ = const. show that quasistationary heat transfer occurs over only a small initial range of Re $_{\rm V}$ = 0 to 20. For values of Re $_{\rm V}$ over 20 in the range of Re $_{\rm S}$ = 130 to 540, the rate of heat transfer increases with increase of Re $_{\rm V}$ but never exceeds by more than 15 to 20% the rate of heat transfer with steady flow without oscillations. It is concluded that a greater increase of heat transfer than 15 to 20% is not to be expected from increased turbulence of gas flow. Moreover, low-frequency pulsations of gas flow in a furnace will only increase heat transfer appreciably for particles which are drawn along by the steady flow. There are 2 figures.

ASSOCIATION: VNII Torfyanoy promyshlennosti Card 2/2 (VNII of the Peat Industry)

Effect of fluctuations on the heat exchange between a gas flow and the surface of solid bodies. Teploenergetika 9 no.8:75-77 Ag *162.

1. Vsesoyuznyy nauchno-issledovatel*skiy institut torfyanoy promyshlennosti.

(Heat—Transmission) (Fluid dynamics)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001550020011-6

SHTEYNBERG, A.S., kand.tekhn.nauk

Hydraulic resistance of the annular combustion chamber of gas-turbine engines with a draught turn. Avt.prom. 28 (MIRA 15:9) no.10:6-9 0 '62.

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut. (Automobiles—Engines—(Compressed gas))

SHTEYNERG, A.S. (Kiyev)

Effective derivation of the best trigonometric approximations.

(MIRA 16:9)

Ukr. mat. zhur. 15 no.2:173-184 163.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001550020011-6

SHTEYNBERG, A.S., kand tekhn.nauk

Using an ignition system with a semiconductor spark plug for starting gas-turbine engines. Avt.prom. 29 no.3:14-17 Mr 163. (MIRA 16:3)

l. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchnoissledovatel'skiy avtomobil'nyy i avtomotornyy institut. (Automobiles, Gas turbine—Ignition)

"APPROVED FOR RELEASE: 07/13/2001 CIA-RI

CIA-RDP86-00513R001550020011-6

SHTEYNBERG, A.S., kand.tokhn.nauk

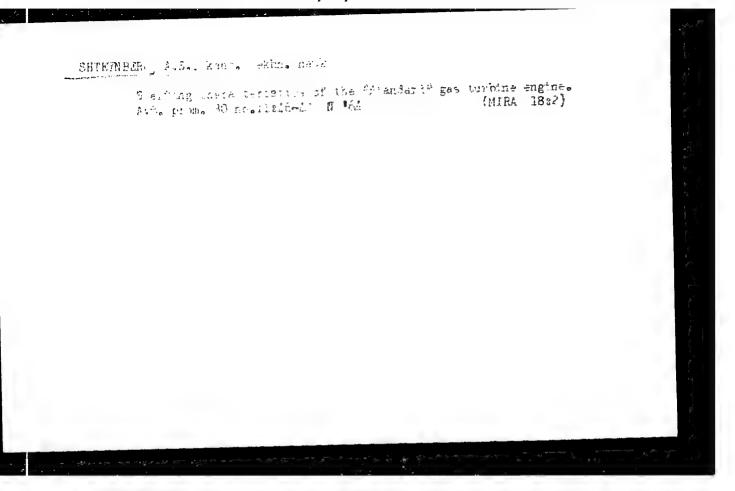
Air cooling of the spark-plug spiral in the combustion chamber of a gas-turbine engine. Avt.prom. 29 no.9:28-31 S '63. (MIRA 16:9)

1. Gosudarstvenny, soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut. (Spark plugs-Cooling)

SHTEYNBERG, A.S., kand. tekhn. nauk

Air atomization of fuel in the Rover gas-turbine engine. Avt.
prom. 29 no.11:45-48'N '63.

(MIRA 16:12)



i. 21031-65 EWT(d)/EPA/EWT(1)/SWP(\$)/EPF(\$)/EPF(\$)/EPR/T/EPA(bb)-2 Pz-6/Paa-4/
\$\tilde{p}_{-4/Pa-4}\$ BSD/AEDC(b)/ASD(\$p)-3/AFETR/AFTC(\$a)/AFTC(\$p) WW/WE
ACCESSION MR: AP5001145 S/0113/64/000/XO8/0045/0047

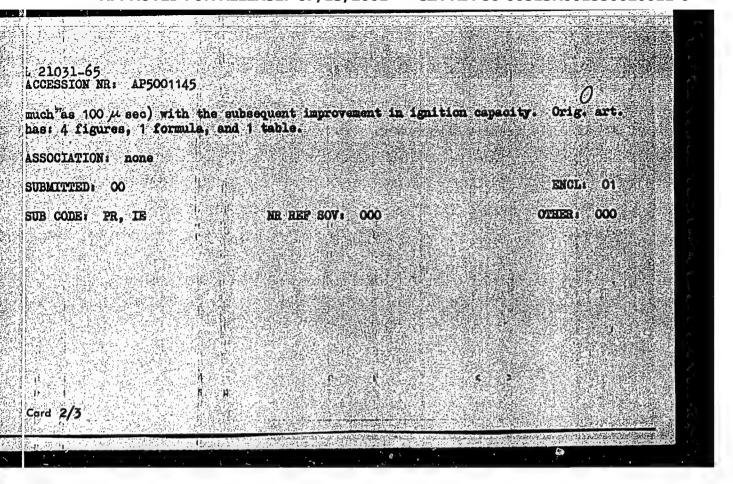
AUTHOR: Shteynberg, A. S. (Candidate of technical sciences)

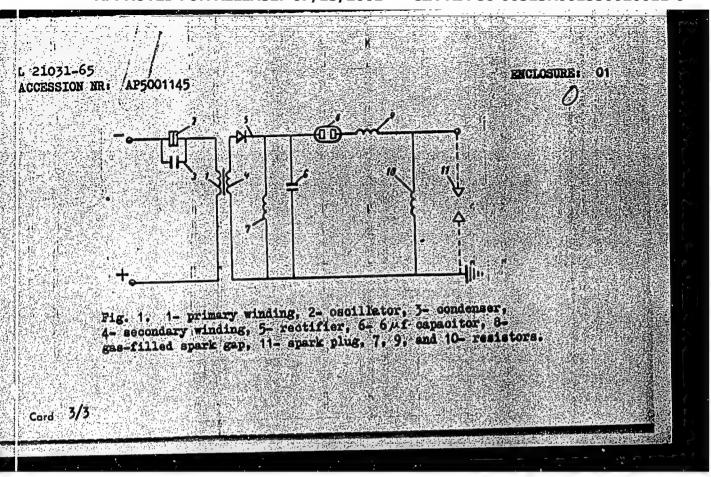
FITLE: High-energy ignition system for gas turbine engine start-up

SOURCE: Avtomobil'mays promyshlennost', no. 8, 1964, 45-47

FOPIC TAGS: gas turbine, ignition system, combustion chamber, diesel fuel, fuel pump, spark ignition/ SE 158 spark plug

ABSTRACT: The igniting capacity of low-voltage, high-energy ignition systems from the British firm Rotaks was tested. The ignition circuit is given in Pig. 1 on the Enclosure. It has a 12-joule condenser with a 5 Af capacitor. To test its ignition capacity, a 140 × 250-mm combustion chamber was used with COST 4749-49 diesel fuel at 20G, injected through a single-channel centrifugal fuel injection system. The spark plug was type SE-15B surface discharge device placed inside the chamber at a depth of 25 mm. The stored energy in the condenser was changed in steps from 0.4 to 55.2 joules, and the pulse discharge frequency was kept at 2-4 seconds. Fuel presence versus flow rate curves were obtained to determine the starting characteristics of the engine. The Rotake system with a choke coil at 12 joules was equivalent to a 55.2-joule condenser system, because of the extended spark-formation duration (by as Cord 1/5)



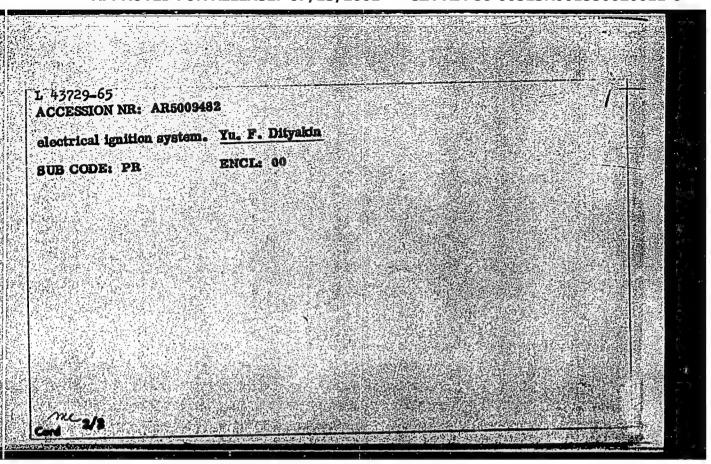


BAKHMUTSKIY, M.A., inzh.; GORBOVETS, M.N., inzh.; PODSYPANIN, Yu.I., inzh. SHTEYNBERG, A.S., inzh.

Experimental molding equipment with packet vibration. Stroi. i dor. mash. 9 no.3:29-31 Mr '64. (MIRA 17:6)

EWT(d)/EPA/EVT(m)/EVP(f)/EPF(n)-2/EPR/T-2/EPA(bb)-2/EWA(c) ACCESSION NR: AR5009482 Pag-4/Ps-4 VW 8/0124/85/000/003/B049/B049 SOURCE: Ref. zh. Mekhanika, Abs. 3B315 AUTHOR: Shteynberg, A.S. TITLE: A study of the combustion chamber of the Rover 18/60 gas turbine CITED SOURCE: Tr. Tsentr. n.-i. avtomob. i avtomotorn. in-ta, vyp. 67, 1964, 64-79 TOPIC TAGS: gas turbine, turbine combustion chamber, universal air injector, turbine ignition system, turbine driven generator Rover 18/60 turbine TRANSLATION: The author presents the methodology and results of an experimental analysis of the combustion chamber in a gas turbine designed to drive the generator of a land-based airport power plant. The author describes the design of the chamber, the electrical ignition system and the pressure operated atomizer. Hydraulic drag properties of the chamber are defined for the cold air scavenging and combustion stages. The relationship of fuel consumption to pressure and the base angle of the atomized fuel stream at various air and fuel pressures are defined as part of the analysis of the injector system. The pressure of the atomizing air was varied in analyzing the starting characteristics of the chamber. A special experimental chamber was used to study the Card 1/2

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001550020011-6



B

EWT(m)/EPF(c)/EPR/EWP(j) L 19605-65 Pc-4/Pr-4/Ps-4/Pa-4 RPL/AFWL/AEDC(a) RM/WW

ACCESSION NR: AP5003152 5/0020/64/158/002/0448/0451

AUTHOR: Shteynberg, A. S.; Sokolova, N. A.

TITLE: Linear pyrolysis of condensed substances

SOURCE: AN SSSR. Doklady, v. 158, no. 2, 1964, 448-451

TOPIC TAGS: pyrolysis, macromolecular chemistry, high temperature effect, heat of

decomposition, thermochemistry

ABSTRACT: The term linear pyrolysis is customarily used for a steady-state unidimensional propagation of the reaction front of thermal decomposition under conditions when the condensed aubstance, situated at some distance from the reaction zone, does not have time to be heated to the temperature a which the reaction proceeds at an appreciable rate. The principles of linear pyrolysis must be known to determine the temperature above which the results of experiments investigating the kinetics of thermal decomposition of a substance in a medium with constant temperature become incorrect. The authors studied the character of the decomposition reaction in the pyrolysis of highmolecular compounds (using polymethyl methacrylate, as an example), comparing

Card 1/2

L 19605-65

ACCESSION NR: AP5003152

the temperatures of the heated plate at the site of contact with the surface of the substance and of the surface of the substance, and evaluating the possibilities of the method of linear pyrolysis for determining the kinetic constants of the high-temperature decomposition of condensed substances. The kinetic constants were determined. The authors conclude that in experiments on linear pyrolysis of high-molecular substances of the polymethyl thickness, and in a first approximation reaction proceeds in a layer of finite process is half of the true activation energy of the observed the surface temperature of the substance is close to the temperature of the plate within a broad range of pyrolysis rates.

"The authors thank B. I. Brounshteyn, O. M. Todes, I. I. Paleyev, and A. F. Belyayev for their help in the work." 1 Orig. art. has: 1 figure, 7 formulas, 3 graphs.

ASSOCIATION: Gosudarstvennyy institut prikladnoy khimii (State Institute of Applied Chemistry)

SUBMITTED: 01Apr64

ENCL: 00

SUB CODE: GC. TD

NO REF SOV: 004

OTHER: 007

JPRS

Card 2/2

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001550020011-6"

GORIOVETS, M.N., Inzh.; EHTEYNBERG, A.S., inzh.; RYABOV, L.I., inzh.

Automatic control of maximum louding of belt conveyors of loose materials. Strol. i dor. mash. 10 no.6:16-17 Je '65.

(MIRA 18:8)

CHIEF your, and, BIF OF ONA, R.Z.: SORCLOW, I.D.

6. Jing insulating peat slabs by the pressure-drop method. Inzh.-fiz. zhur. 3 no.6:730-734 Je *65. (MIRA 18:7)

1. Institut torfyanoy promyshlennosti, Leningrad.

GORBEVETS, M.N., inzh.; TUMARKIN, P.I., inzh.; SHTEYNBERG, A.S., inzh.

Manufacturing external panels for the 1-464A-series homes in packet molds. Strol. i dor. mash. 9 no.12:27-28 D 164.

(MIRA 18:3)

 GCRBOVETS, M.H., inzh.; RYABOV, L.I., inzh.; SHTEVNBERG, A.S., inzh.

Device for checking the thickness of molding compartments. Stroi. 1 dor. mash. 10 no.1:26-28 Ja *65 (MIRA 18:2)

I_21183-65 PMG(j)/EMT(1)/EMP(e)/EMG(k)/EMT(m)/EPA(sp)-2/EPF(c)/EPF(n)-2/EPR/T/EMP(b) Pz-6/Pab-10/Pr-4/Ps-4/Pu-4 IJP(c)/SSD/AEDG(a)/AFWI/USD RWH/WM/AT/ACCESSION NR: AP5003019 WH S/0051/65/018/001/0016/0019

AUTHOR: Shteynberg, A. N.

TITLE: Static voltage-current and temperature characteristics of a discharge in a hollow cathode

SOURCE: Optika i spektroskopiya, v. 18, no. 1, 1965, 16-19

TOPIC TAGS: gas discharge, voltage current characteristic, temperature characteristic, hollow cathode discharge, thermionic emission, work function

ABSTRACT: The voltage-current characteristics of helium and meon discharges in a hollow cathode were measured at a wide range of pressures. The measurements were made at temperatures at which thermionic emission plays an appreciable role. To determine the influence of the work function of the cathode material on the characteristics, cathodes of identical size were made from graphite and zirconium nitride. The column densities ranged from 25 to 500 mA/cm2. The apparatus employed was described by the author elsewhere (Coll. "Pribory dlya khimicheskikh i fiziko-khimicheskikh issledovaniy" [Instruments for Chemical and Physicochemical

Card 1/3 2-

"APPROVED FOR RELEASE: 07/13/2001

L 21183-65

ACCESSION NR:

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n.

Research, no. 37-63-732/4, GOSINITI, 1963). A typical set of voltage-current characteristics and the hollow-cathode dimensions are shown in Fig. 1 of the enclosure. Curves of the power vs. discharge current and of the temperature vs. discharge current are also presented. The results indicate that the gas pressure is not a critical parameter with respect to the cathode temperature. The temperature is greatly affected by the work function of the cathode material, and a decrease in the work function can decrease the discharge power (for constant current) by a factor of several times, thereby reducing the cathode temperature. Thus, the cathode temperature can reach 2,000° in the case of the graphite cathode (work function 4.5 eV) and 1500-1600° in the case of ZrN (work function 2.9 eV). There was no noticeable difference between discharges in helium and neon. Orig. art. has: 7 figures.

ASSOCIATION: None

SUBMITTED: 08Feb64

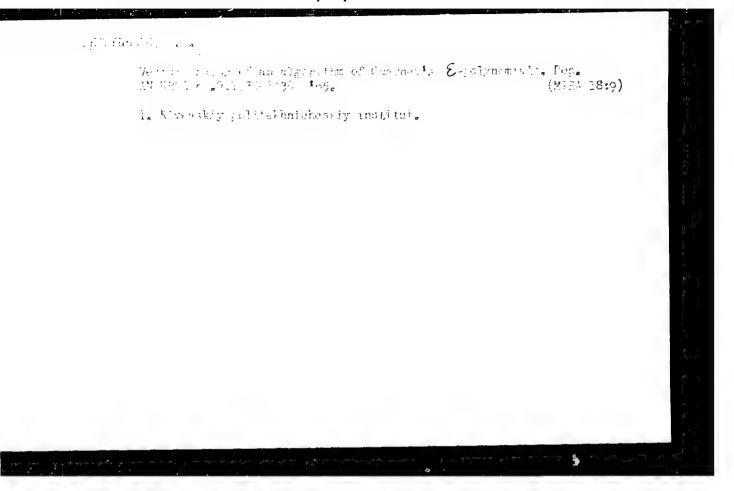
ENCL: Ol

SUB CODE: OP, EE

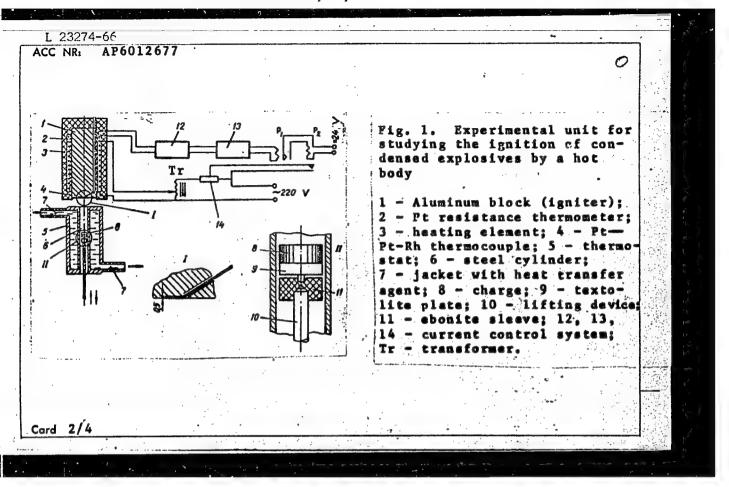
NR REF SOV: 009

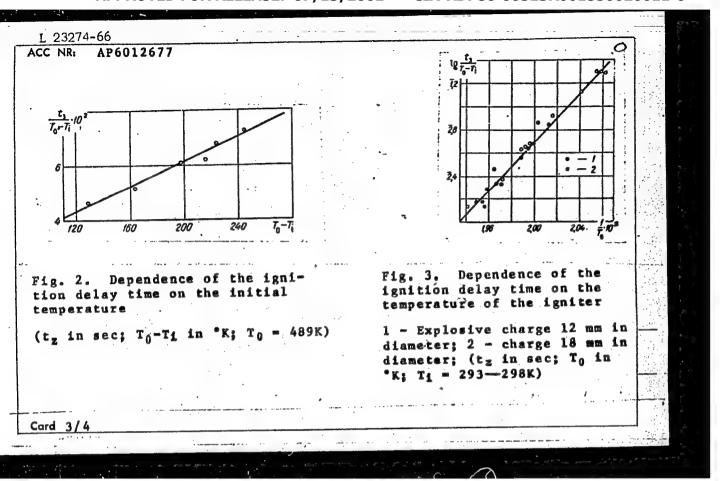
OTHER: 005

Card 2/3



DWL/WL/WW L 23274-66 EWT(m) UR/0170/66/010/004/0482/0486 SOURCE CODE: AP6012677 ACC NR A. S.; Ulybin, V. B.; Barzykin, V. V.; Merzhanov. AUTHOR: A. G. ORG: Branch of the Institute of Chemical Physics, AN SSSR, Moscow Oblast (Pilial Instituta khimicheskoy fiziki AN SSSR) TITLE: Ignition of condensed substances at a constant surface temperature SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 10, no. 4, 1966, 482-486. ignition delay, condensed explosive, surface temperature, TOPIC TAGS: pyroxylin ABSTRACT: To verify the previously postulated theory of the ignition of condensed explosives (Averson, A. E., Barzykin, V. V., Merzhanov, A. G. IFZh, 9, No. 2, 1965), the ignition of pyroxylin No. 1 charges having a constant initial surface temperature (T1 = 255-369K) by contact with an aluminum block with a varying temperature $(T_0 = 485 - 525K)$ was studied experimentally using a specially developed experimental unit (see Fig. 1). The initial temperature of the pyroxylin was set by a thermostat, and the temperature of the igniter was set by a current The ignition delay to was visually observed control system. UDC: 536.46) Card 1/4





L 23274-66 ACC NR AP6012677 The temperature of the ignition block and recorded using a stopwatch. was varied to obtain an ignition delay of 3-20 sec. The experimental data were treated by an equation derived by mathematical transformation of the published theoretical equation for tz. The graphed results (see Fig. 2 and Fig. 3) show satisfactory agreement between the theoretical and the experimental data. The activation energy calculated from the graphs was found to be 200 kj/mole. The authors thank B. M. Dmitriyev and O. A. Kochetov for their assistance in setting the apparatus: Orig. art. has: 3 figures and 3 formulas. [PS] SUBM DATE: 31Aug65/ ORIG REF: .004/ ATD PRESS:4235 SUB CODE: 19/ Card 4/40V

UR/0113/66/000/002/0666/0010 SOURCE CODE: (A) ACC NR: Ar6617624

Sateynberg, A. S. (Candidate of technical sciences)

ORG: WAMI

TITLE: Hydraulic drag in the tangential combustion chamber and gas collector of a

gas turbine engine with a radial turbine Avtomobil'naya promyshlennost', no. 2, 1966, 6-10

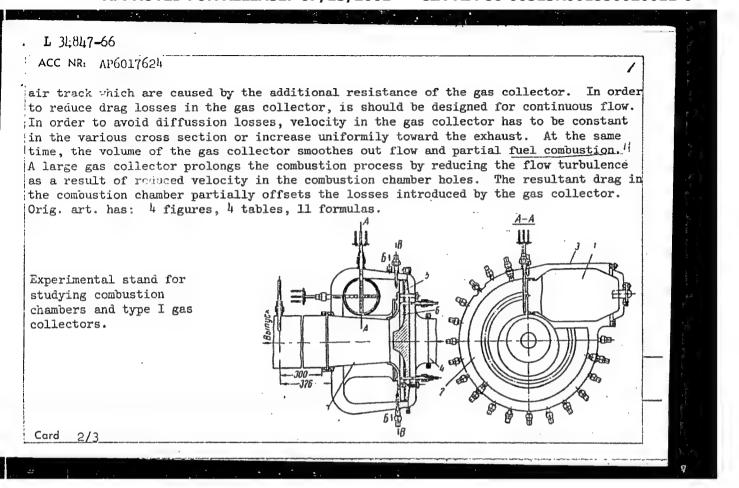
TOPIC TAGS: hydraulic resistance, combustion chamber test, gas turbine engine, flow velocity, flow stability, HYDRAULIC DRAG

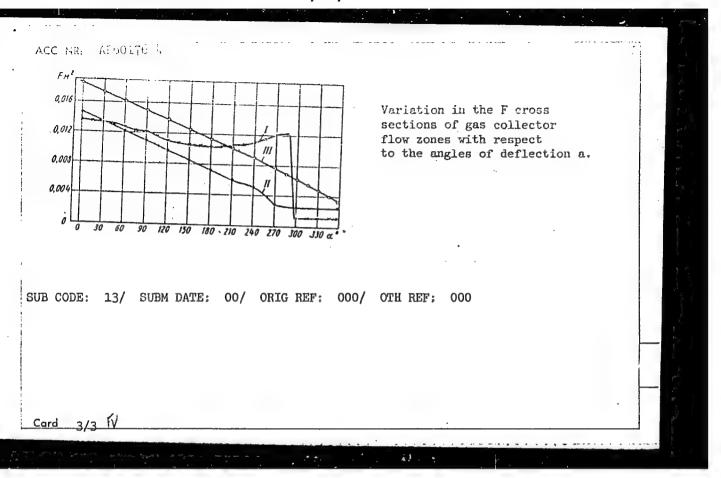
ABSTRACT: The author studies hydraulic drag in the tangential combustion chamber and gas collector of gas turbine engines with radical turbines. An experimental stand is set up for studying hydraulic drag (see figure 1). Three different types of gas collectors are studied. A figure is given showing the relationship between the various cross sections of gas collector flow zones with respect to the angle of deflection (see figure 2). Hydraulic drag for the stand is calculated on the basis of the individual drag of each element. The hydraulic drag coefficient for the combustion chamber is calculated. The hydraulic drag of the gas collector is determined by its shape. Two series of tests are conducted-with and without combustion. It is shown that the use of a tangential combustion chamber increases overall losses in the gas-

1/3 Card

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ACC NR. AP7001448

(A)

SOURCE CODE: UR/0413/66/000/021/0184/0184

INVENTORS: Omirov, V. S.; Krivovyaz, R. M.; Shteynberg, A. S.; Markochev, V. N.; Dvurechenskiy, N. I.

ORG: none

TITLE: A combustion chamber of an automobile gas turbine engine. Class 46, No. 188221 /announced by Central Scientific Research Institute of Automobiles and Automobile Engines (Tsentral'nyy nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 184

TOPIC TAGS: automotive industry, gas turbine, turbine engine, gas turbine engine, combustion chamber

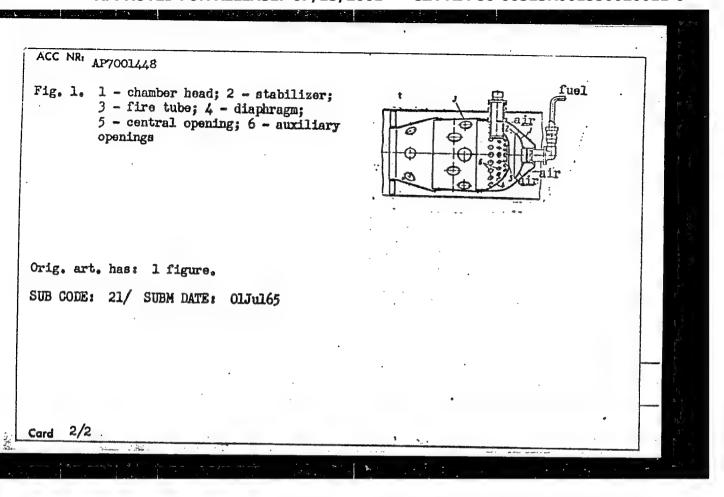
ABSTRACT: This Author Certificate presents a combustion chamber of an automobile gas turbine engine. The chamber contains a head with a stabilizer and a fire tube (see Fig. 1). To improve the process of mixture forming, a spherical diaphragm with a main central opening and with several auxiliary openings on the periphery of its surface is placed in the head of the chamber between the stabilizer and the fire tube.

Card 1/2

UDC: 621.438.056

"APPROVED FOR RELEASE: 07/13/2001 C

CIA-RDP86-00513R001550020011-6



SHTEY BERG, B. I.; GALYBIN, N. A.; SHEYN, A. S.; ZHELUDOV, I. S., Engs.

Peat Industry

Measuring the pressure in operating peat briquette presses. Torf. prom. 30, No. 4, 1953.

SO: Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

SHTEYNBERG, B.I.

Gewind installations for the manufacture of peat briquets and semibriquets. Torf. prom. 35 no. 4:27-28 *58. (MIRA 11:7)

1. Glavnyy inzhener Giprotopproma. (Briquets(Fuel)) (Peat)

Medium capacity peat briquetting plant with a diesel electric power plant operating on peat gas. Torf. prom. 35 no. 4:28 *58. (MIRA 11:7) 1. Glavnyy inshener Giprotopproma. (Briquets(Fuel)) (Peat)

L 41364-66 ENT(m)/ENP(j)/ENP(t)/ETI IJP(c) JD/JAJ/RM	
ACC NR: AP6022487 (A) SCURCE CODE: UR/0064/66/000/004/0037/0040	
AUTHOR: Semenova, T. A.; Markina, M. I.; Shteynberg, B. I.; Kozlov, L. I.; Mayorov, I. K.	
ORG: none	
TITLE: Low-temperature catalyst for the carbon monoxide conversion process SOURCE: Khimicheskava promyshlennost! no // 1066 27 //0	
SOURCE: Khimicheskaya promyshlennost', no. 4, 1966, 37-40	
TOPIC TAGS: carbon monoxide, industrial catalyst, HYDROGEN, WATER VAPOR	
ABSTRACT: The paper discusses the properties of a low-temperature catalyst, developed at GIAP, for the conversion of carbon monoxide and water vapor into hydrogen. The main components of the catalyst are compounds of zinc, chromium, and copper. The presence of sulfur compounds in the gas rapidly reduces the catalyst's activity. Long-term tests showed the operation of the catalyst to be stable over a period of one year. A gradual decrease in activity is due not only to poisoning with sulfur compounds, but also, as indicated by x-ray diffraction analysis, to a gradual recrystallization of the catalyst. The catalyst was then tested in a pilot plant unit with a capacity of 1000 m ³ of gas per hour. The results permit the authors to recommend the industrial use of the low-temperature catalyst studied. Orig. art. has: 7 tables.	
SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 007	
Card 1/1 1-1/2 UDC: 661.961.5:66.097.3-974	
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ACC NR: AP7001364

SOURCE CODE: UR/0413/66/000/021/0031/0031

INVENTORS: Ivanovskiy, F. P.; Shteynberg, B. I.; Semenova, T. A.; Markina, M. I.; Kozlov, L. I. Shutov, Yu. M.

ORG: none

TITLE: A catalyst for gas purification. Class 12, No. 187736 [announced by State Scientific Research and Design Institute of the Nitrogen Industry and of Organic Synthesis Products (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sintema)/

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 31

TOPIC TAGS: catalysis, industrial catalyst, gas, zinc oxide, chromium oxide, copper oxide, magnesium oxide, manganese oxide, aluminum oxide, titanium oxide, acetylene, oxygen, nitrogen oxide

ABSTRACT: This Author Certificate presents a catalyst for gas purification. The catalyst contains hydrogen and consists of oxides of zinc, chromium, and copper with admixtures of oxides of magnesium, manganese, aluminum, and titanium. To increase its stability and its activity in freeing gases from acetylene, oxygen, and nitrogen oxides, the oxides of zinc, chromium, and copper are taken in the proportions ZnO: Cr₂O₃: CuO = 1.0 to 0.05: 10.0 to 0.03: 10.0. Each admixture of the oxides

Card 1/2

UDC: 66.097.3:66.074.3

ACC NR. AP70	manganese, aluminum, and tita	nium mar gangtitut	a 0 0515 0%	of the
basic catalys	t composition. Prior to its usining gas at a temperature of	se, the catalyst m	ay be treated	with a
SUB CODE: 07/	SUBM DATE: 14Apr64			ľ
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